

Construction checklist

3b Resources and equipment requirements for additional units of competency (CPC08)

(Held by standard trained Construction teachers)

Introduction

Schools delivering units of competency in Construction courses must have access to specific resources/equipment. Students must have sufficient access to the specified resources/equipment to enable them to acquire and demonstrate competency.

The resources/equipment listed for each unit of competency are required to deliver and assess that unit. Resources/equipment may be accessible either on-site (at school) or off-site (including while the student is on work placement).

Where relevant, the range statement in a unit of competency contains a complete list of tools and equipment required to be addressed in student learning. The actual tools and equipment which **must be used and assessed against** are set out in the critical aspects of evidence in each unit.

All resources/equipment selected **MUST**

- comply with DET policy and procedures
- be appropriate to the unit of competency being assessed and the circumstances of the assessment.

All resources/equipment lists are to be read in conjunction with

- Board of Studies Construction Syllabus (Parts A & B)
- advice provided in current Equipment Safety in Schools database (ESIS) only available via the DET portal under My applications
- advice about high risk construction work listed in ESIS under Construction Work
- Safety Alert 19 Working at Heights
https://detwww.det.nsw.edu.au/adminandmanage/ohands/safety_alert/index.htm
- advice provided in the current Chemical Safety in Schools package, which is available at
<https://detwww.det.nsw.edu.au/assetmanagement/safecomp/chemschool.htm>

Common resources for all units of competency

Some resources/equipment are required for ALL units. They are listed below.

The following resources and equipment must be available and contextualised for delivery of ALL units of competency:

- current and relevant OH&S legislation and codes of practice
- materials and equipment relevant to following OH&S policies and procedures including organisation/company bulletins/memos, site safety management plan, security fencing, lockable gates, security lighting, screens and hoardings, as appropriate, Material Safety Data Sheets (MSDS), job safety analysis (JSA)/safe work method statements (SWMS), fire safety equipment.

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- specifications and work instructions related to the unit of competence including manufacturer/organisation/site guidelines, policies and procedures, work schedules, job sheet/plans/specifications and work instructions, diagrams/sketches/maps
- relevant quality assurance regulations including Building Code of Australia (BCA), Australian Standards, advice from regulatory authorities, internal company policy and standards, workplace operations and procedures and manufacturers' specifications
- appropriate signage relating to hazard identification, emergency information (exits, equipment and first aid), regulations regarding prohibited, mandatory or restricted activities, on-site traffic and other appropriate warning signs and symbols
- school environmental policies and practices particularly relevant to the construction industry including waste management, noise, dust, vibration, clean-up management, storm-water management.
- personal protective equipment (PPE) required under legislation/codes of practice and workplace policy/practices and appropriate to the task.

Personal protective equipment (PPE)

Teachers must ensure that students are wearing personal protective equipment **appropriate to the task being undertaken or the unit of competency being assessed**. Please note that all PPE must meet Australian Standards.

Appropriate PPE includes but is not limited to:

- steel cap footwear – predominantly leather upper
- high visibility vests (limit time worn in hot weather)
- hard hat/cap
- eye protection/safety glasses/goggles
- gloves appropriate for the task eg for chemical hazards, physical handling, thermal hazards
- hearing protection eg ear muffs/plugs
- dust mask/respirator
- sun protection.

Important note regarding Electrical Safety

All electrical tools and equipment must have a current electrical safety tag and should be operated through portable/fixed earth leakage circuit breaker (ELCB)/residual current device (RCD). All cables must be rated for length and load requirements appropriate for the task. WorkCover NSW requires that all electrical leads be placed on stands. An assessment must be made regarding the availability of enough stands for any job to be undertaken.

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Resources and equipment requirements for additional units of competency (CPC08)

CPCCSF2004A Place and fix reinforcement materials	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> place and fix reinforcement materials to specification on a minimum of three different jobs and involving deformed bars, rods and mesh sheets. 		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> bolt cutters measuring tapes and rules mesh guillotines reinforcement benders tie wire reels wire nippers <p>May also include:</p> <ul style="list-style-type: none"> general hand and power tools manual metal arc welding (MMAW) machines oxy-acetylene setting and cutting attachments <p>Other resources</p> <p>Materials appropriate to the work application may include:</p> <ul style="list-style-type: none"> bar chairs deformed bars ligatures mesh sheets of deformed bars mesh sheets of plain bars plain rods spacer/spreader assemblies wire ties <p>May also include:</p> <ul style="list-style-type: none"> pipe sections scaffolding components structural steel sections 		
*if access is Off Site provide details, eg locations, times etc		

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CPCCSF2003A Cut and bend materials using Oxy/LPG equipment	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> • use both oxy-acetylene and LPG systems to cut to specification a range of bars up to and including 36mm • heat and bend a minimum of three bars to specification including at least one 36mm bar. 		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> • cylinders • regulators • gas tubing • cutting blowpipes • flint lighters • measuring tapes and rules • clamps and support stands • correct fire extinguishers for work activity <p>Other resources</p> <p>Materials appropriate to the work application may include:</p> <ul style="list-style-type: none"> • cutting consumables • deformed bars • mesh sheets of deformed bars • mesh sheets of plain bars • plain rods <p>May also include:</p> <ul style="list-style-type: none"> • pipe sections • scaffolding components • structural steel sections 		
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CPCCPD2003A Remove and replace doors and door and window components	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS1001A Work safely in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> remove and replace components ensuring surrounding areas and furniture components remain undamaged safely and effectively remove and replace a minimum of: one door with an independent screen furniture from two different door types furniture from two different window types with at least one having independent screens glazing from a timber door or window. 		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <p>Other resources</p> <p>Materials appropriate to the work application including</p> <ul style="list-style-type: none"> doors with independent screens variety of door types door furniture including closers handles hinges latches locks safety chains screens variety of window types window furniture including <ul style="list-style-type: none"> brackets catches handles locks screens stays windows with independent screens glazed timber doors or windows 		
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CPCCPD2002A Use painting and decorating tools and equipment	Access On Site	Access Off Site*
<p>Pre requisite unit: CPCCOHS1001A Work safely in the construction industry</p> <p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> • use and maintain the mandatory tools listed in the range statement • use and maintain at least two of the mechanical sanding equipment types listed in the range statement • use, operate and maintain conventional and airless spray equipment. <p>Note: The usage controls for any tools and equipment marked with an asterisk * should be checked on the ESIS database prior to use in schools. Those marked with a sigma Σ are currently being risk assessed and until the outcome is known, should not be used in schools.</p>		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> • brushware • brushware accessories • buckets • covers • drop sheets • duster brushes • filling knives and blades • hammers • hand sanders • heat guns Σ • mechanical sanders, including: <ul style="list-style-type: none"> ○ belt * ○ disc * ○ orbital * ○ random orbital * • nail punches • paint pots and buckets • paint stirrers • putty knives • roller accessories • roller frames • scrapers • wire brushes • airless spray equipment • conventional spray equipment (e.g. compressor)* • water blasters <p>Other resources</p> <p>Materials appropriate to the work application.</p>		
*if access is Off Site provide details, eg locations, times etc		

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CPCCPD2001A Handle painting and decorating materials	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS1001A Work safely in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> • safely and effectively identify, handle, store and distribute painting and decorating materials, which are to include a range of coatings and two each of: <ul style="list-style-type: none"> ○ cleaning solvents ○ fillers ○ adhesives. • dispose of all paint types in an environmentally sustainable way compliant with relevant local legislation and regulations • clean and store painting equipment using environmentally sustainable methods and work practices including waste reticulation systems. 		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> • brushware • natural bristle • nylon • microcellular synthetic bristles • coverings • waste disposal equipment <p>Other resources</p> <p>Materials appropriate to the work application may include:</p> <ul style="list-style-type: none"> • aggregates • cleaning solvents • coatings • fillers and adhesives • paints • water-based • solvent-based • two-pack • textures • low odour and low-VOC (Volatile Organic Compound) paint • no-VOC paint • non-toxic paint • alternative and natural paint and paint materials <p>Refer to Chemical Safety in Schools Package</p> <p>https://detwww.det.nsw.edu.au/assetmanagement/safecomp/chemschool.htm</p> <p>May also include</p> <ul style="list-style-type: none"> • wall and decorative covering materials 		
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CPCCCO2003A Carry out concreting to simple forms	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS1001A Work safely in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> prepare subgrade; erect formwork; cut, place and tie reinforcement; place and hand screed concrete for a slab of (4 square metres is recommended) and a minimum depth of 100mm to the required finished level and job specification. 		
<p>Tools and Equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> brooms chutes edging tools shovels trowels wheelbarrows * <p>May also include</p> <ul style="list-style-type: none"> bull floats hand floats kibbles line pumps stipple devices trowelling machines <p>Other resources</p> <p>Materials appropriate to the work application may include :</p> <ul style="list-style-type: none"> bar chairs bracing edge form/boards fabric sheet mesh pegs spacers reinforcing bars 		
*if access is Off Site provide details, eg locations, times etc		

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CPCCCO2002A Use concreting tools and equipment	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS1001A Work safely in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence.</p> <ul style="list-style-type: none"> Identify and apply OHS requirements for safe use of floats, shovels, screeds and vibrating equipment. <p>Note: The usage controls for any tools and equipment marked with an asterisk * should be checked on the ESIS database prior to use in schools. Those marked with a sigma Σ are currently being risk assessed and until the outcome is known, should not be used in schools.</p>		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> bolt cutters crow bars cutting knives edging tools floats grinders hammers jointers kneel boards levelling equipment long handled shovels measuring tapes nail bags picks pinch bars pliers rakes screeds sledge hammers steel fixing reels string lines trowels vibrators * <p>Hand and power tools (portable and static) *Firstly check status of specific tool/s and equipment in ESIS and if not found, assume Σ status:</p> <ul style="list-style-type: none"> digging, transporting, levering, cutting, shaping, fixing, fastening and percussion tools electrically operated portable and static power tools and leads material shifting, holding tools and finishing tools setting out, marking out and levelling tools <p>Plant and equipment *Firstly check status of specific tool/s and equipment in ESIS and if not found, assume Σ status:</p> <ul style="list-style-type: none"> 240v power supplied, hand held or small single person operated equipment compressor * generator * 		

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Other resources Materials appropriate to the work application.		
<i>*if access is Off Site provide details, eg locations, times etc</i>		

CPCCCO2001A Handle concreting materials	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS1001A Work safely in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence.</p> <ul style="list-style-type: none"> safely handle the materials and components in the mandatory tasks. 		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> brooms rakes shovels tarpaulins and covers wheelbarrows * <p>Other resources</p> <p>Materials appropriate to the work application may include:</p> <ul style="list-style-type: none"> aggregates cement form release agents general concreting materials sand water bar chairs bracing plastic membrane reinforcement mesh spacers steel and timber formwork <p>May also include:</p> <ul style="list-style-type: none"> additives curing compound oxides bar steel decking key joints push-pull props reinforcement bars scaffolding *(see OHS Safety alert No 19 – Working at heights) support props tilt panels 		
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CPCCCM2005A Use construction tools and equipment	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> • safely use and maintain a minimum of rule, tape, square, hammer, hand saw, hand plane, chisel, shovel, wheelbarrow, sledge hammer, pick, mattock, crow bar and pinch bar for given tasks • identify power and pneumatic tools, including electrical and compressed air safety, for a given task • safely use and maintain a minimum of a: <ul style="list-style-type: none"> ○ power saw * ○ electric plane *β ○ impact power drill * ○ nail gun * ○ impact hammer * ○ generator * ○ compressor * <p>Note: The usage controls for any tools and equipment marked with an asterisk * should be checked on the ESIS database prior to use in schools. Those marked with a sigma Σ are currently being risk assessed and until the outcome is known, should not be used in schools.</p> <p>“*β: This tool is now listed with new VET usage controls. Please do not allow students to use this tool until you have noted the new usage controls on the ESIS database.”</p>		
<p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <p>Hand tools:</p> <ul style="list-style-type: none"> • cutting, planing, boring, shaping, fixing, fastening and percussion tools • material shifting and holding tools • setting out, marking out and levelling tools <p>Power and pneumatic tools *Firstly check status of specific tool/s and equipment in ESIS and if not found, assume Σ status:</p> <ul style="list-style-type: none"> • portable, electrical, pneumatic and gas driven tools, including leads and hoses <p>Plant and equipment *Firstly check status of specific tool/s and equipment in ESIS and if not found, assume Σ status:</p> <ul style="list-style-type: none"> • 240v power supplied • compressors * • generators * • hand held or small single person operated equipment • pneumatic driven * <p style="text-align: right;">➔</p>		

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CPCCCM2005A Use construction tools and equipment	Access On Site	Access Off Site*
Other resources Materials appropriate to the work application may include : <ul style="list-style-type: none"> • drill bits • saw blades • nails • screws • adhesives • abrasives • grinding wheels • fuels and lubricants . 		
*if access is Off Site provide details, eg locations, times etc		

CPCCCM2002A Carry out excavation	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction , plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence : <ul style="list-style-type: none"> • safely and effectively use tools, plant and equipment • communicate and work effectively and safely with others • determine from an existing set out, a mark out and then excavate site as part of an overall project to job specifications without damaging services. Note: The usage controls for any tools and equipment marked with an asterisk * should be checked on the ESIS database prior to use in schools. Those marked with a sigma Σ are currently being risk assessed and until the outcome is known, should not be used in schools.		
Tools and equipment Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed: <ul style="list-style-type: none"> • automatic levels • brooms • buckets • crow bars • hammers • hoses • laser levels * • levels • measuring tapes and rules • picks • profiles • saws • set out pegs • shovels • staff <div style="text-align: right;">➔</div>		

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CPCCCM2002A Carry out excavation	Access On Site	Access Off Site*
<ul style="list-style-type: none"> straight edges string lines wheelbarrows * Other resources Materials appropriate to the work application may include: <ul style="list-style-type: none"> nails pegs sheet material shoring (timber and metal) timber safety barriers signage/markers for services that may be damaged or interfered with by excavation. 		
<i>*if access is Off Site provide details, eg locations, times etc</i>		

CPCCCO3013A Slump test concrete	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry		
The learner and trainer should have access to appropriate documentation and resources normally used in the workplace. To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction , plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence : <ul style="list-style-type: none"> complete three slump tests from different batches in accordance with specifications. Note: The usage controls for any tools and equipment marked with an asterisk * should be checked on the ESIS database prior to use in schools. Those marked with a sigma Σ are currently being risk assessed and until the outcome is known, should not be used in schools.		
Tools and equipment Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed: <ul style="list-style-type: none"> include: <ul style="list-style-type: none"> bullet nosed rod (600mm x 16mm) sampling scoops standard slump cones steel rule steel slump plate (500mm x 500mm) may include: <ul style="list-style-type: none"> brushes buckets sponges trowels, including steel trowels wooden floats. 		
<i>*if access is Off Site provide details, eg locations, times etc</i>		

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CPCCCA3023A Carry out levelling operations	Access On Site	Access Off Site*
Pre requisite unit: CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry		
<p>The learner and trainer should have access to appropriate documentation and resources normally used in the workplace.</p> <p>To demonstrate competency in this unit, the person will require access to the common equipment and resources listed in the Introduction, plus any tools and equipment relevant to the nature of the project/task and to the critical aspects of evidence:</p> <ul style="list-style-type: none"> • set up and test levelling equipment • transfer levels and record differences in height undertaking a closed traverse using both the rise and fall method and the height of instrument method on a minimum of three projects • confirm accuracy of the readings taken, including set up and movement of device in two locations • accurately record the results of each levelling procedure to organisational requirements • calculate distances using an optical levelling instrument and levelling staff. <p>Note: The usage controls for any tools and equipment marked with an asterisk * should be checked on the ESIS database prior to use in schools. Those marked with a sigma Σ are currently being risk assessed and until the outcome is known, should not be used in schools.</p>		
<p>Essential tools and equipment</p> <p>Tools and equipment</p> <p>Tools and equipment relevant to the task but excluding those prohibited in ESIS or not yet risk assessed:</p> <ul style="list-style-type: none"> • automatic level • levelling staff • signage for laser levelling • bolt cutters • chalk lines • hammers • laser levels * • laser targets • marking equipment • measuring tapes and rules, spirit levels and straight edges • plumb bobs • saw stools • saws • string lines • water levels • wooden and steel pegs 		
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